

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

04/08/2004

John S. Beulick Armstrong Teasdale LLP Suite 2600 One Metropolitan Square St. Louis, MO 63102

EXA	MINER
BARRER	A, RAMON M
ART UNIT	PAPER NUMBER
2832	

DATE MAILED: 04/08/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,330	10/03/2003	Xianrui Huang	RD-29432-1	2553

TITLE OF INVENTION: METHODS AND APPARATUS FOR PASSIVE SHIMMING OF MAGNETS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	. NO	\$1330	\$300	\$1630	07/08/2004	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notification		in Block I, by (a)	specifying a new c	orrespondence addres	ss; and/or (b) indicating a sepa	Tale FEE ADDRESS TO
	CE ADDRESS (Note: Legibly mark-up	with any corrections or	use Block 1)	Note: A certificate of Fee(s) Transmittal. T papers. Each additio	of mailing can only be used for this certificate cannot be used for nal paper, such as an assignme ate of mailing or transmission.	or domestic mailings of the or any other accompanying ont or formal drawing, must
John S. Beulick Armstrong Teasda Suite 2600				I hereby certify that States Postal Service addressed to the M	ate of mailing or transmission. The trifficate of Mailing or Trans this Fee(s) Transmittal is being with sufficient postage for firal Stop ISSUE FEE address SPTO, on the date indicated below	mission g deposited with the United st class mail in an envelope above, or being facsimile
One Metropolitan St. Louis, MO 631					· · · · · · · · · · · · · · · · · · ·	(Depositor's name)
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APPLICATION NO.	FILING DATE	<u> </u>	FIRST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,330 TITLE OF INVENTION: N	10/03/2003 METHODS AND APPARAT	US FOR PASSIVE	Xianrui Huang SHIMMING OF M	AGNETS	RD-29432-1	2553
APPLN. TYPE	SMALL ENTITY	ISSUE FE	EE PU	UBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	· · · · · · · · · · · · · · · · · · ·	\$300	\$1630	07/08/2004
EXAM	MINER	ART UN	IT CI	LASS-SUBCLASS	٦	
BARRERA	, RAMON M	2832		335-301000		
PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless	ed to the USPTO or is being	e of a Customer BE PRINTED ON T low, no assignee da submitted under sep	attorneys or agen will be printed. THE PATENT (print of ata will appear on the parate cover. Comple	e natent. Inclusion of	assignee data is only appropria	ute when an assignment has ignment.
	e assignee category or catego	·	• "	individual 🗆	corporation or other private gr	oup entity government
4a. The following fee(s) are □ Issue Fee	enclosed:	46	. Payment of Fee(s):	sount of the fee(s) is a	malacad	
D Publication Fee				ount of the fee(s) is e t card. Form PTO-203		
☐ Advance Order - # of	Copies		☐ The Director is h	ereby authorized by	charge the required fee(s), or	credit any overpayment, to
Director for Patents is reque	ested to apply the Issue Fee a		Deposit Account Nu	mber	(enclose an extra co	opy of this form).
(Authorized Signature)		(Date)				
other than the applicant; interest as shown by the re	d Publication Fee (if requir a registered attorney or ag ecords of the United States P	ent; or the assigne atent and Trademar	e or other party in k Office.			,
completed application for case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT S SEND TO: Commissioner	ation is required by 37 CFR by the public which is to fix is governed by 35 U.S.C. Intest to complete, including gram to the USPTO. Time with the amount of time you this burden, should be sent Office, U.S. Department SEND FEES OR COMPLET for Patents, Alexandria, Virtual and the sent to the sen	Ill vary depending require to complet to the Chief Inform of Commerce, A TED FORMS TO ginia 22313-1450.	this domining the upon the individual te this form and/or nation Officer, U.S. lexandria, Virginia THIS ADDRESS.			
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John S. Beulick	- I I D		BARRERA,	RAMON M
Armstrong Teasdale Suite 2600	ELLF		ART UNIT	PAPER NUMBER
One Metropolitan S			2832	
St. Louis, MO 6310)2		DATE MAILED: 04/08/2004	1

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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Application No. Applicant(s) 10/678,330 HUANG ET AL. Notice of Allowability Examiner **Art Unit** Ramon M Barrera 2832 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to 2. The allowed claim(s) is/are 1-20. 3. The drawings filed on 03 October 2003 are accepted by the Examiner. 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) 🗌 All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application (PTO-152) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413). Paper No./Mail Date 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), 7. Examiner's Amendment/Comment Paper No./Mail Date 10/3/03 4. Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. Other . Ramon M Barrera **Primary Examiner** Art Unit: 2832

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 10/678,330 Page 2

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: None of the prior art of record disclosed or taught an MRI apparatus having a magnetic field shimmed utilizing exactly three different strengths of ferromagnetic pellets.

- 2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramon M Barrera whose telephone number is (571)272-1987. The examiner can normally be reached on Monday through Friday, except Wed., from 9 to 3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571)272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ramon M Barrera Primary Examiner Art Unit 2832

rmb